16th National Symposium of Indian Agricultural Universities Association on

Protected Cultivation of Horticultural Crops: Challenges and Potential Solutions

December 29-30, 2024

PROCEEDINGS



SRI KARAN NARENDRA AGRICULTURE UNIVERSITY
Jobner, Jaipur- 303328

INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION
G-5, Office Block- A, NASC Complex
DEV PRAKASH SHASTRI MARG, PUSA CAMPUS
New Delhi-110012

16th National Symposium

of

Indian Agricultural Universities Association

on

Protected Cultivation of Horticultural Crops: Challenges and Potential Solutions

December 29-30th, 2024

PROCEEDINGS

Sponsored by

INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION (IAUA)

New Delhi

Organized by

SRI KARAN NARENDRA AGRICULTURE UNIVERSITY

Jobner (Jaipur)

www.iauaindia.org
www.sknau.ac.in

Guidance and Inspired by
PROF. BALRAJ SINGH
Vice Chancellor
Sri Karan Narendra Agriculture University, Jobner (Jaipur)

Compiled and Edited by

- **Dr. N.K. Gupta**
  Director Research, SKNAU, Jobner
- **Dr. Sunita Gupta**
  Professor & Head (Plant Physiology), RARI, Durgapura
- **Dr. Shailesh Marker**
  Professor & Associate Dean, SKNCOA, Jobner
- **Dr. Shailesh Godika**
  Professor & Head (Plant Pathology), SKNCOA, Jobner
- **Dr. Roshan Choudhary**
  Deputy Director Research
  Directorate of Research, SKNAU, Jobner
- **Dr. Heena Saheewala**
  Assistant Professor
  Department of Biochemistry, SKNCOA, Jobner
- **Dr. Raju Ram Choudhary**
  Assistant Professor
  Department of GPB, RARI, Durgapura, Jaipur

Published by
University Publications Division,
Sri Karan Narendra Agriculture University, Jobner (Jaipur)
Indian Agricultural Universities Association (IAUA), New Delhi

Publication Number:- SKNAU/2025/94

Sponsored by
Indian Agricultural Universities Association (IAUA), New Delhi
©copyright - SKNAU & IAUA

CONTENTS

Acknowledgment	.....	I
About the Organizers	.....	II
Executive Summary	.....	1
Inaugural Session	.....	1
Technical Session I	.....	3
Technical Session II	.....	7
Technical Session III	.....	10
Visit to SKNCOA, Jobner	.....	11
Visit to Village Bassi Jhajra	.....	12
Plenary Session	.....	12
General Recommendations	.....	12
Annexure I-Technical Programme of 16th National Symposium of IAUA	.....	14
Annexure II- List of Delegates	.....	17
Annexure III- Executive Committee of IAUA	.....	21
Annexure IV-Technical Committees for organization of 16th National Symposium of IAUA	.....	22
Glympses	.....	25
Press & Media	.....	27

ACKNOWLEDGMENT

SKN Agriculture University, Jobner is privileged to host 16th National Symposium on 'Protected Cultivation of Horticultural Crops: Challenges and Potential Solutions' during December 29-30, 2024 at RARI, Durgapura, Jaipur. The Symposium has been fully sponsored by Indian Agricultural University Association (IAUA), New Delhi. The success of the National Symposium can be gauged from the participation of a large number of Vice Chancellors and their representatives, who enthusiastically contributed through deliberations and discussion during the technical sessions. The university is extremely grateful to Dr P. Kausal, President, IAUA & Vice Chancellor, SGUUH&F, Bharsar U.K. and Dr Dinesh Kumar, Executive Secretary, IAUA, New Delhi as well as members of the executive committee, IAUA, for their willingness to host the Symposium at Rajasthan Agriculture Research Institute, Durgapura, SKNAU, Jobner.

Shri Haribhau Kisanrao Bagde, Hon'ble Governor of Rajasthan inaugurated as the Symposium chief guest. His insightful inaugural address encouraged the Vice Chancellors and the participants. The presence of other dignitaries including Dr B.S. Dhillon, Padam Shree Awardee and Former Vice Chancellor, PAU, Ludhiana; Dr S. K. Malhotra, Vice Chancellor, MHU, Karnal; Dr A.K. Karnatak, Vice Chancellor, MPUAT, Udaipur; Dr N.H. Kelawala, Vice Chancellor, KU, Gandhinagar; Dr K.B. Kathiria, Vice Chancellor, AAU, Anand; Dr Z.P. Patel, Vice Chancellor, NAU, Navsari; Dr Parvinder Kaushal, Vice Chancellor, VCSGUUH&F, Bharsar; Dr A.K. Vyas, Vice Chancellor, AU, Kota; Dr Vishnuvardhan, Vice Chancellor, UHS, Bagalkot; is deeply acknowledged.

We extend our sincere thanks to all Chairman, Co-Chairman, Panelists, Speakers Rapporteurs, Moderators, Members of core and working committee, who significantly contributed in managing the technical sessions in well organized manner. The organizing Committees and other members who helped in organizing this symposium are duly acknowledged.

We would fail in our duty, if we don't acknowledge the support and blessings extended by Dr Balraj Singh, Hon'ble Vice Chancellor, SKNAU, Jobner for making this event successful.

(Harphool Singh)
Director RARI &
Organizing Secretary

(N.K. Gupta)
Director Research
SKNAU, Jobner &
Organizing Secretary

THE ORGANIZERS

Sri Karan Narendra Agriculture University (SKNAU)

Sri Karan Narendra Agriculture University (SKNAU), Jobner was established on 13 September 2013 by Government of Rajasthan with the bifurcation of Swami Keshwanand Rajasthan Agricultural University, Bikaner. Jobner is situated 45 km away from International airport, Jaipur and 16 km away from Phulera junction. At one end of Jobner, a hill is situated which has two forts and famous "Jawala Mata" temple. The territorial jurisdiction and responsibility of the University extends to fourteen districts of Rajasthan, viz., Jaipur, Jaipur Gramin, Sikar, Alwar, Dausa, Tonk, Ajmer, Bhartpur, Kotputali, Dholpur, Kairthal-Tijara and Neem ka Thana for teaching, research and extension in the field of agriculture and allied sciences. The university has 14 constituent colleges, 01 Research institute, 08 Krishi Vigyan Kendra, 02 Agriculture Research Stations, 04 Agriculture Research Sub-Station and 02 centres for Centre for Information Management and Computer Applications (CIMCA) and Agriculture Technology Management Improvement Centre (ATMQIC). University offers undergraduates, Masters and Ph.D. program in agriculture and allied sciences.

Indian Agricultural Universities Association (IAUA)

Indian Agricultural Universities Association (IAUA) was established on 10th November 1967 with nine founder-member Agricultural Universities. The founder president was Dr. P. N. Thapar, Vice Chancellor of Punjab Agricultural University, Chandigarh (now Ludhiana). The Association's main objective is to promote agricultural research, education and extension in the universities and the states, thereby promoting rural development in the country. It also acts as a bureau of information to facilitate communication, coordination and mutual consultation among agricultural universities. Presently, IAUA has 74-member universities, which include 66 State Agricultural Universities (SAUs), 04 Deemed Universities (DUs), 03 Central Agricultural Universities (CAUs) and one Central University with Agriculture Faculty. In terms of specialization, there are 46 Agricultural, 07 Horticulture, 21 Veterinary, Animal, Fisheries and Dairy Sciences Universities. All the SAUs, SVUs, CAUs and DUs in India, which provide an integrated programme of teaching, research and extension in Agricultural, Horticulture, Veterinary, Animal and Fisheries sciences, are qualified to become members of the Association. The IAUA has organized 86 events since its establishment, which include 47 Annual Vice Chancellor's Conventions, 15 National Symposia, 14 Brainstorming Sessions, 09 Regional Meetings and one International Conference.

EXECUTIVE SUMMARY

Protected cultivation of horticultural crops is an advanced agricultural practice designed to enhance crop productivity and quality through providing optimal growing conditions in a controlled environment. It offers a climate-resilient solution for optimizing agricultural productivity, particularly in challenging environments such as wastelands, water deficient areas, etc. However, issues such as high initial costs, climate regulation, efficient water and nutrient management, pest control and market access remain significant challenge to extend the protected cultivation in india. By creating controlled growing conditions, this technology enhances the production, quality and ensures consistent yields despite adverse weather conditions. With advancements in technology and market-oriented approaches, protected cultivation holds the potential to transform horticulture into a sustainable and economically viable venture. In light of the above, the IAUA had taken timely decision to organise its two days 16th National Symposium on Protected Cultivation of Horticulturtal Crops: Challenges and Potential Solutions in collaboration with Sri Karan Narendra Agriculture University, Jobner which was held on December 29-30, 2024 at Rajasthan Agriculture Research Institute, Durgapura, Jaipur, a premier research institute of the university.

INAUGURAL SESSION



The Symposium started at Maharana Pratap Auditorium with the lighting of lamps by **Mahamahim Governor of Rajasthan, Shri Haribhau Kisanrao Bagde,** who was the chief guest of Inaugural Ceremony of 16th National Symposium. Padma Shri awardee Dr B.S. Dillon, Ex-Vice -Chancellor, PAU, Ludhiana, Punjab; Dr Parvindra Kaushal, Chairman IAUA&VC, Vice-Chancellor, SGUUH&F, Bharsar, Dr Balraj Singh, Vice-Chancellor, SKNAU, Jobner; Dr Dinesh Kumar, Secretary, IAUA and Dr N. K. Gupta, Organizing Secretary & Director Research, SKNAU, Jobner were also present on the dais.

Mahamahim Governor emphasized that universities should develop crop varieties that are well-suited for cultivation with limited water and have early maturity. Farmer-centric varieties and cost-effective technologies should be developed to enhance agricultural sustainability and productivity in the country. He stressed that farmers should use parental seeds and do more organic farming of vegetables and other crops. He also encouraged students to pursue farming as a career and become job providers rather than job seekers. Hon'ble Governor also appreciated the IAUA for undertaking scientific activities for the benefit of the farmers of the country. Further, he said that I am happy to know that

Association in cunsultation with Agricultural Universities identify the issues of farmers and disccuss these in its programmes to find the solutions.



Dr. Balraj Singh, Hon'ble Vice Chancellor, SKNAU, Jobner welcomed and felicitated the dignitaries on the dais and provided a historical overview of SKNAU's contributions to agriculture and allied sectors in Rajasthan and India. He highlighted the university's significant role in the genetic improvement of barley, wheat, pearl millet, guar, chickpea and seed spices. Additionally, he informed about the development of water storage facilities at Jobner, emphasizing their importance in enhancing water conservation and sustainable agriculture. He also gave an overviview on need of protected cultivation in India with special reference to Rajasthan, where soil and environmental conditions are totally adverse and water availability is very poor.



Dr. Parvinder Kaushal, President, IAUA in his address, provided brief account of the IAUA's history and mission to advance agricultural research, education and extension. He noted the associations role as an information hub, fostering coordination and consultation among agricultural universities. He apprised that since its inception, IAUA has organized events like Annual Vice Chancellor's Conventions, National Symposia, Brainstorming Sessions and International Conference, etc. He appreciated the organizers to choose the topic and Symposium on protected cultivation, which is quite relevant with the need of state of Rajasthan as well as other parts of India. He expressed sincere thanks and gratitude to the Hon'ble Governor of Rajasthan for gracing the inaugural session of the symposium.



Padma Shri Awardee Dr B.S. Dillon, Ex-Vice Chancellor, PAU, Ludhiana, Punjab highlighted the need for a new era of the Green Revolution by developing high-yielding crop varieties and innovative technologies tailored to current agricultural challenges. He emphasized the importance of farmer-oriented research to ensure sustainable productivity especially in the face of climate change and water scarcity. He urged universities to focus on future-ready solutions including the development of drought-resistant and early-maturing crop varieties.



Release of Publications: Three valuable publications prepared by university scientists viz., "Directorate of Research: A Panoramic View", Bulletin on "Sacred Status & Cultural Impact of Barley in Hindu Heritage" and Folder on "Improved Varieties & Production Technology of Chickpea" were released during inaugural session. The publication were appreciated by galaxy of scientists present there.



Dr Dinesh Kumar, Executive Secretary, IAUA, New Delhi informed that IAUA has organized 86 events including 47 Annual Vice Chancellor's Conventions, 15 National Symposia, 14 Brainstorming Sessions, 09 Regional Meetings and 01 International Conference. He also informed that the main objective of the Association is to promote agricultural research, education and extension in the agriculture universities. It also acts as a bureau of information to facilitate communication, co-ordination and mutual consultation among agricultural universities. He placed on record sincere gratitude to Mahamahim Governor of Rajasthan for gracing the occasion and his insightful inaugural address. He also extended sincere thanks to all the participating Vice Chancellors, their representatives and SKNAU/RARI officials for organizing the 16th National Symposium. He informed that IAUA is going to organized many more conferences/symposiums in different agricultural Universities on topics highly relevant with Indian Agriculture and allied sectors.

The inaugural session was ended by vote of thanks proposed by Dr N. K. Gupta, Director Research and Organizing Secretary. He extended his sincere thanks to Mahamahim Governor of Rajasthan Shri Hari Bhau Bagde, Dr. Parminder Kaushal, President IAUA, all the vice chancellors and their representatives who have attended the symposium as well as various committees and staff involved in organizing this symposium was duly acknowledged.

Technical Session-I: Technologies in Protected Cultivation

Chair	Padma Shri Awardee Dr B.S. Dillon, Ex-Vice Chancellor, PAU, Ludhiana, Punjab
Co-Chair	Dr K. B. Kathiria, Vice Chancellor, AAU, Anand
Keynote Address - I	Speaker: Dr Balraj Singh, Vice Chancellor, SKNAU, Jobner Topic: Protected Cultivations: Status, Potential, Challenges and Solutions
Keynote Address -II	Dr S. K. Malhotra, Vice Chancellor, MHU, Karnal Topic: Perspectives of Hi-tech horticulture in India
Panel Discussion	**Penalists:** 1. Dr K. B. Kathiria, Vice Chancellor, AAU, Anand 2. Dr Z. P. Patel, Vice Chancellor, NAU, Navsari 3. Dr A.K. Singh, Vice Chancellor, CSAUAT, Kanpur (On-line) 4. Dr D. K. Singh, Professor & Head, Vegetable Science, GBPUAT, Pantnagar 5. Dr Harshvardhan Chaudhary, Principal Scientist, IARI, New Delhi 6. Dr Meena Thakur, Professor (Entomology), YSP University of Horticulture & Forestry, Solan **Moderator:** Dr Shailesh Marker, Associate Dean, SKN COA, Jobner
Rapporteurs	Dr L.N. Bairwa, Dean, COH, Durgapura, Jaipur Dr Seema Sharma, Professor, Agronomy, RARI, Durgapura, Jaipur



Dr. Balraj Singh, Vice Chancellor, SKNAU, Jobner and keynote speaker of this session informed that protected cultivation is a transformative approach in modern agriculture, offering higher productivity, improved quality and resource efficiency. In India, its adoption has grown significantly, with greenhouses, net houses and poly-houses supporting the production of capsicum, cucumber, tomato, cherry tomato and flowers like gerbera, carnation, etc. This technology ensures climate resilience, year-round production and better market opportunities, making it crucial for sustainable farming. However, challenges such as high initial investment, lack of technical knowledge, pest and disease management needs to be addressed. To overcome these barriers, policy support, financial assistance, farmers' training and research-driven innovations are essential. Strengthening integrated pest management, automation and market linkages will further enhance its viability. With collaborative efforts from policymakers, researchers and farmers, protected cultivation has the potential to revolutionize Indian agriculture, ensuring food and nutritional security and economic growth while mitigating climate risks.



Dr. S.K. Malhotra, Vice Chancellor, Maharana Pratap Horticulture University, Karnal emphasized the need for technological advancements in protected cultivation. He highlighted the importance of designing and developing low-cost, location-specific poly house technology integrated with IoT, artificial intelligence, sensors and automation to enhance efficiency, monitor crops and optimize resource management. He stressed that large structures are not suitable and recommended standard poly house sizes of 1000-2000 m^2, with a rectangular or square shape (80:20 or 75:25 ratio) and proper orientation (N-S or E-W) for maximum sunlight utilization. Dr Malhotra also underlined the significance of precise and targeted input application, advocating for real-time monitoring and adaptive management techniques to improve productivity. He opined towards rational use of fertilizers and bio-fertilizers, including Rhizobium, Azotobacter, Azospirillum, phosphate/potash mobilizing bacteria and PGPR consortia, to enhance soil fertility and crop performance. Additionally, he stressed the necessity of developing climate-resilient varieties and adapting protected cultivation technology that can withstand unpredictable climatic conditions. The development of disease-free planting materials through aeroponics, micro-propagation and plug tray nurseries, which facilitate easy nutrient and oxygen absorption and reduce the risk of root-borne diseases, were also key points in his address.



Dr K.B. Kathiria, Vice Chancellor, AAU, Anand highlighted the major challenges in protected cultivation, particularly the impact of nematodes and soil-borne diseases on crop productivity. To equip farmers with the necessary knowledge and skills, he suggested for introducing short term certificate courses focused on greenhouse and polyhouse technologies. Additionally, he emphasized the need for dedicated breeding programs to develop new varieties and hybrids specifically suited for controlled conditions, ensuring better adaptability, disease resistance and higher yields in protected farming systems.

Dr. Z.P. Patel, Vice-Chancellor, NAU, Navsari informed that the use of biochar in crops, can enrich soil, increase carbon content by 70-80%, enhance water-holding capacity and support indigenous microflora. He also advocated for the adoption of robotic grafting machines in brinjal to improve grafting efficiency and precision, promoting advanced agricultural practices for better crop productivity and sustainability. Dr. Patel Specially emphasized the need of developing farm machine and tools which can be utilized by small and marginal farmers.



Dr. A.K. Singh, Vice Chancellor, CSAUAT, Kanpur, who joined on-line, emphasized the need to enhance crop productivity under protected cultivation by addressing key challenges. He highlighted the shortage of expertise in greenhouse technologies in India, which limits the effective implementation of protected farming. Additionally, the cultivation of a limited number of crops and associated pollination problems further hinder productivity. To overcome these issues, he stressed upon the importance of developing advanced technologies to manage soil-borne diseases and ensuring the availability of virus-free seeds and planting materials for ultimately improving sustainability and yield in protected cultivation.

Dr. D.K. Singh, Professor & Head, GBPUAT, Pantnagar, underlined the growing need for protected cultivation due to the continuous shrinking of agricultural land. He highlighted the importance of incorporating the parthenocarpy gene in crops to enhance production under protected conditions while addressing pollination challenges. Additionally, he stressed the necessity of using virus- and disease-free planting materials to achieve optimal yields. To strengthen research and development in this field, he suggested formation of expert teams in different universities to focus on breeding programs and other advancements in protected cultivation.

Dr. Harshvardhan Choudhary, Principal Scientist, IARI, New Delhi, elaborated the importance of breeding new varieties specifically for protected cultivation, focusing on crops such as tomato, capsicum, cucumber, bitter gourd and melons. He highlighted that whiteflies, mites and thrips pose challenges in these controlled environments, affecting plant health and yield. To mitigate these challenges, he stressed upon the need for suitable pest management strategies to ensure sustainable and productive protected cultivation. His research on vegetables was appreciated by house.





Dr. Meena Thakur, Professor (Entomology), YSPUHF, Solan spoke about the crucial role of bumble bees in pollination under protected cultivation, particularly for crops like tomato and kiwi fruit. She also mentioned that nine species of bumblebees have been identified and successfully reared under laboratory conditions, showcasing their potential for enhancing pollination and improving crop yields in controlled environments / protected cultivation.



The session was ended with a vote of thanks by moderator of the session Dr S. Marker.

Technical Session-II: Production Technology and Plant Protection

Chair	Dr. A.K. Karnatak, Vice Chancellor, MPUAT, Udaipur
Co-Chair	Dr N.H. Kelawala, Vice Chancellor, KU, Gandhinagar
Keynote address I	Speaker: Dr Udayanarayana Bhat, Director, Koppert Biological Systems India Pvt. Ltd., Bengaluru Topic: Biological control under protected cultivations
Keynote address II:	Speaker: Dr Harshvardhan Chaudhary Principal Scientist, IARI, New Delhi Topic: Varieties/Hybrids Suitable for Protected Cultivation Developed by Public sector Institutions
Keynote address III:	Speaker: Dr Indra Mani Mishra Vice Chancellor, VNMKV, Parbhani (On-line) Topic: AgriPv for sustainable food and energy production system
Keynote Address IV:	Speaker: Dr Sunil Pareek Dean, PGS, NIFTEM, Kundli, Sonepat Topic: Next Generation of Future Foods: Technologies, Challenges and Sustainability
Panel Discussion	**Moderator:** Dr N. K. Gupta Director Research, SKNAU, Jobner
	Panelists: 1. Dr Parvindra Kaushal, Vice-Chancellor, VCSGUUH&F, Bharsar 2. Dr Balraj Singh, Vice-Chancellor, SKNAU,Jobner 3. Prof. Nazir Ahmad Ganai, Vice-Chancellor, SKUAST, Kashmir, Srinagar (On-line) 4. Dr Vishnuvardhan, Vice-Chancellor, UHS, Udyanagiri, Navanagar, Bagalkot, Karnataka 5. Shri D R Mehta, Founder, Jaipur Foots
Rapporteurs:	Dr. Shailesh Godika, Professor, Plant Pathology, SKNCoA, Jobner Dr. Pradeep Shekhawat, Professor, Plant Pathology, RARI, Durgapura

The Chairperson of the session, Dr A.K. Karnatak, ViceChancellor, MPUAT, Udaipur, in his opening remarks appreciated the selection of theme of the session and considered it as an important step towards development of agriculture through production technology and plant protection under protected cultivation for enhancing income and real benefit to the farmers. The session featured a series of lectures delivered by distinguished researchers from India followed by a panel discussion. The keynote addresses were followed by the panel discussion, which was carried forward by the moderator, Dr N.K. Gupta, Director Research, SKNAU, Jobner.

First Keynote speaker **Dr. Udayanarayan Bhat, Director of Koppert Biological System India Pvt. Ltd., Bengaluru,** emphasized the role of bio-agents such as microbial agents, botanicals and bio-fertilizers in enhancing soil health and improving quality of produce under protected cultivation. He highlighted the importance of Integrated Pest Management (IPM) strategies in protected cultivation to minimize chemical inputs and restore the natural ecological balance, promoting sustainable and environmentally friendly farming practices.



Second Keynote speaker **Dr. Harshvardhan Chaudhary, Principal Scientist, IARI, New Delhi,** highlighted the crucial role of IARI in breeding improved varieties tailored for greenhouse, polyhouse and net house conditions. He informed that IARI has developed several hybrids and varieties of vegetables and flowers that can be thrive under protected environments, ensuring higher productivity, superior quality and off-season production. Notable vegetable hybrids include Pusa Gynoecious Hybrid-18 (cucumber), Pusa Rakshak (tomato), Pusa Deepti (capsicum) and other advanced cultivars of brinjal and chilli designed for controlled conditions. These advancements expected to contribute significantly to sustainable agriculture, ensuring better returns for farmers. The future scope includes the integration of molecular breeding techniques, precision agriculture and climate-resilient hybrid development to further promote protected cultivation systems.



The third keynote lecture was delivered online by **Dr. Indramani Mishra, Vice Chancellor, VNMKV, Parbhani** who elaborated on the integration of solar panels in agricultural fields and the potential for crop cultivation beneath them. Dr. Mishra emphasized that AgriPV (Agrivoltaics) offers a dual benefit by optimizing land use for both energy generation and food production. He highlighted India's vast potential for harnessing solar energy through this approach, which can significantly contribute to sustainable agriculture and renewable energy development.



Dr. Sunil Pareek, Dean, PGS at NIFTEM, Kundli, Sonepat, provided an overview of alternative future foods and offered a comprehensive analysis of the currently available products in the market, highlighting innovations, challenges and sustainability aspects in the food industry. He narrated about

the future foods, their nutritional composition as liking among new generations. The house agreed that it is imperative to search alternative sources to provide nutritional food to ever growing population of the world.

The session became very interactive by inviting the panelists from different areas. The panellists expressed their views on the theme of the session as follows:

Dr. Parvinder Kaushal, Vice Chancellor, SGUUH&F, Bharsar, showed concern regarding importance and impact of any technology for the benefit of farming community. However, it's success depends upon scientific validity and government policies.

Dr. Balraj Singh, Vice Chancellor, SKNAU, Jobner emphasized to develop result oriented production technology and plant protection under protected cultivation. He said that continuous cropping system of same or similar crops leads to development of soil borne diseases and pests, which has become a major concern for protected cultivation. He also highlighted that soil preparation involves initial practices like fumigation, sanitation, solarisation, mulching, etc. in which solarisation commonly used to reducing soil-borne pathogens. He informed that SKNAU, Jobner is working on development of machines for solarization in polyhouses.

Dr. A.K. Vyas, Vice Chancellor, AU, Kota, shared his experience and raised concern about standardization of cultural practices followed in protected cultivation such as raising seedling nursery, bed preparation for transplanting, fertilizer and irrigation management, laying of drip line, uses of different types of mulching materials, transplanting of seedlings, fertigation, pollination management, deleafing, earthing up, harvesting, use of growth hormone, pesticides etc. He also endorsed the observations made by the esteemed panellists during the technical session.

Prof. Nazir Ahmad Ganai, Vice Chancellor, SKUAST, Kashmir, Srinagar (On-line) explained that mostly greenhouses are designed to minimize or eliminate insects and diseases problems so that plants can be grown in pesticide free environment. He also said that preventing insects from entering the protected structures are the best way of controlling virus and insect problems.

Dr. Vishnuvardhan, Vice Chancellor, UHS, Bagalkot, shared his experiences with protected cultivation and emphasized upon the need of standardization of insect-pest management for vegetable farming. He also highlighted the potential to expand the area under protected cultivation by utilizing uncultivable land. Additionally, he stressed upon the importance of providing proper training to farming communities to enhance the adoption of these practices.

Shri D.R. Mehta, Founder of Jaipur Foot, emphasized the importance of Farmer Producer Organizations (FPOs) and adopting an entrepreneurial mindset. He urged farmers to remain in contact with the Agri-universities so that new innovations and technologies may reach to all sectors of society. He highlighted to share success stories among youths, farmers and stake holders to motivate them towards choosing agriculture as profession.

The session was end by vote of thanks extended by moderator Dr N.K. Gupta, Director Research, SKNAU, Jobner

Technical Session-III:
Market Assess, Value Chains and Future Directions

Chair	Dr. Z. P. Patel, Vice Chancellor, NAU, Navsari
Co-Chair	Dr Vishnuvardhan, Vice Chancellor, UHS, Bagalkot,
Panel Discussion	**Penalists:** 1. Dr N.H. Kelawala, Vice Chancellor, KU, Gandhinagar 2. Dr B. Fakrudin, Director Research, UHS, Bagalkot **Moderator:** Dr. S. Marker, Associate Dean,SKNCOA, Jobner
Rapporteurs	Dr. Harphool Singh, Director, RARI, Durgapura Dr. Ummed Singh, Dean CoA, Fatehpur

The session began with a warm welcome by Dr Balraj Singh, Vice Chancellor, SKNAU, Jobner, who presented floral greetings to all the dignitaries. Dr Z. P. Patel, Chairman, introduced the session theme and emphasized its relevance in today's agricultural landscape. He invited audience's comments during an interactive brainstorming session to have innovative and practical ideas.

Dr. Sheela Kharkwal, Ag. Economist, SKNAU, Jobner, highlighted the potential of Farmer Producer Organizations (FPOs) in enhancing farmers' bargaining power and reducing input costs. She also advocated for establishing cold storage facilities through government funding or Public-Private Partnerships (PPP) to address storage and perishability challenges especially in vegetables.

Dr. Balraj Singh, Vice Chancellor, SKNAU, Jobner, highlighted the scope and importance of diversifying crop production within polyhouses to maximize economic returns. He suggested that creating market demand for aesthetically appealing vegetables, such as colorful capsicums and cauliflowers, with special market focus target on retail outlets, malls and supermarkets. He also suggested developing local hubs to facilitate direct purchases by large retail outlets and engaging hotel chefs for quality and pricing negotiations.

Dr. N.H. Kelawala, Vice Chancellor, KU, Gandhinagar, proposed leveraging block chain technology for geo-tagging agricultural produce, enabling consumers to trace the origin and quality of their purchases. He recommended adopting aggregation models like AMUL to empower farmers and ensure fair market practices.

Dr. B. Fakrudin, Director Research, UHS, Bhagalkot, highlighted the effectiveness of cooperative models such as the Horticultural Producers' Cooperative Marketing and Processing Society (HOPCOMS) and the scope of replicating type of models near protected cultivation area. He also suggested that these models can ensure fair prices for farmers and provide consumers with quality products at affordable rates.

Dr. Vishnuvardhan, Co-Chair, provided a detailed summary of the discussions, emphasizing the potential of Farmer Producer Organizations (FPOs) to strengthen farmers' bargaining power and reduce marketing costs.

Dr. Z. P. Patel, Chair of the Session, in his concluding remarks, highlighted the benefits and scope of diversifying crops within polyhouses to maximize income of the farmers, with a focus on developing local hubs to facilitate direct connections with retail outlets and supermarkets.

The session concluded with a formal vote of thanks extended to all the dignitaries for their valuable contributions by moderator Dr S. Marker.

Day 2: 30.12.2024

Visit to SKNCoA, Jobner

The second day (December 30, 2024) of the National Symposium began with a visit to Sri Karan Narendra College of Agriculture (SKNCOA), Jobner. The esteemed Vice Chancellors, their representatives and participants first toured the historic heritage building of SKNCOA. Here, B.Sc. (Agriculture) final-year READY students showcased various models demonstrating innovative technologies in agriculture, horticulture, beekeeping and allied sectors. The dignitaries were also briefed on the diverse activities undertaken by the READY students as part of their experiential learning program.

Following this, the team visited the water harvesting and storage structures at SKNCOA, Jobner. They observed the facilities created by the university to store up to 25 crores liters of rainwater in the ponds. This harvested water is being utilized for conducting various research experiments by postgraduate and doctoral students.

The Hon'ble members then proceeded to the Instruction Research Field of the University. Committee visited the experiments on seed spices, viz: cumin, coriander, fennel, fenugreek and ajwain. The Principal Investigator showcased the varieties of seed spices developed at the Jobner centre and informed the visitors that two new seed spice varieties were recently identified during the Annual Group Meeting of Spices. The members congratulated entire team for this achievement.

During the visit, the Vice Chancellor, SKNAU highlighted significant concerns related to cumin cultivation. He also informed to the gathering that, in August 2024, the Hon'ble Prime Minister of India dedicated 109 crop varieties to the nation. Among these, the fennel variety RF 290, developed at the Jobner center, was included due to its exceptional volatile oil content.

The team also visited to low cost water purifying facilities developed at SKNCOA, Jobner. The Vice Chancellor, SKNAU, Jobner explained that university has facility to recycle 1.0 lakh liters of waste water from hostels/campus. This water is being reused (after purification) for

growing of crops.

The team then went to village 'Bassi Jhajra' where the thousands of farmers have adopted the protected cultivation as this village and surroundings villages have limited water, poor soils and harsh conditions for open field cultivations. All the dignitaries were amazed to see the cultivation of cucumber and other vegetables under protected cultivation supported by water harvesting and installation of solar panel system in clusters. The vice Chancellors and delegates interacted with the farmers during the visit to their polyhouses. Many farmers shared their success stories among this gathering

Plenary Session

The delegates returned back to RARI, Durgapura and a plenary session was organized in the late evening under the chairmanship of Prof. B.S. Dhillon in the presence of other dignitaries. At the start, the Chairman, thanked the speakers for their lucid presentations, Panellists for probing suggestions and interesting question-answer interactive sessions in the technical sessions and the panel discussions, as well as the Chairmen/Co-chairmen, Moderators and rapporteurs for facilitating the same.

It was followed by the presentations, discussions and finalization of the recommendations for implementation of the same by policy makers, researchers and practitioners for the development of horticulture through protected cultivation. The recommendations that emerged are as follows:

Recommendations

- Visit to the cluster of protected cultivation units in village Bassi Jhajra, Distt Jaipur was not only highly informative and motivating but a visual treat too, the University was congratulated for its efforts to develop the same. The village must be visited by students, researchers and policymakers.
- An AICRP/AINP on Protected Cultivation should be established by ICAR involving leading /potential institutions in the field of research.
- In view of the increasing demand of horticultural products to meet food and nutritional needs by the year 2050, the area under protected cultivation needs to be increased using cluster approach, rainwater harvesting, solar power and plug tray nursery technologies. The Govt. should promote/ enhance subsidy on drip irrigation and fertigation for water and nutrient saving (in arid and semi-arid regions, white pipes laterals should be promoted).
- Strengthen development of varieties of capsicum, melons, sweet pepper and crops specifically for protected cultivation. Further, varietal traits in demand in international market should also be kept in mind.
- Public sector institutions (ICAR and SAUs) should lay greater focus on hybrid seed

production and grafted seedlings to address the issues of high cost of hybrid seeds of cucumber, capsicum and tomato and management of soil borne pathogens under protected environments as well as to raise internal resources.

- A complete package of practices needs to be developed for water, nutrient and Integrated Pest Management (IPM) in protected cultivation for different agricultural eco systems, with immediate attention to manage thrips, mites and white flies. Further, the refinement of training and pruning technology under protected cultivation of tomato, capsicum and cucumber, should get special attention.
- Research on the use of biochar needs attention to improve and sustain the soil health and reduce input cost.
- There is urgent need for standardization of protected cultivation under arid and semi-arid conditions.
- Proper hands-on training is required for the farmers before initiating the protected cultivation (as it is in vogue in Gujarat). The Government must support training on protected cultivation through University, state dept. and NGOs.
- The Government should provide financial support for the construction of scientist hostel to facilitate their practical training, and a guest house for general public as this cluster is attracting a large number of visitors.
- Encourage for replacement of Synthetic plastics with suitable biodegradable materials and use of such material as mulch to take care of emerging environmental issues. The suitable economics must be worked out by researchers.
- Greenhouse design requires continuous alteration in view of climate change (e.g. incorporation of the roof exhaust fans to manage increasing summer heat) and therefore, research must be done to develop ideal designs.
- Commercialization of biological products should be promoted through Public Private Partnership (PPP) mode and the policy of licensing of biological products should be simplified.
- Agri Pv systems for vegetable production should be encouraged at Government level.
- Crop diversification needs to be promoted as it is essential for sustainability and IPM
- Development of diversified local hubs be facilitated having direct connections with retail outlets and supermarkets. This should be accompanied by formation of Farmer Producer Organizations (FPOs) for enhancing farmers' bargaining power and reduce marketing risk.
- Geo tagging in protected cultivation may also be considered on priority
- An alternative to MSP for protected cultivation products may be considered by all state governments following the model of Karnataka Govt.

Technical Programme of 16th National Symposium of IAUA
"Protected Cultivation of Horticultural Crops: Challenges and Potential Solutions"
December 29th - 30th, 2024
SCHEDULE

Annexure I

Day 1 : 29th December, 2024	
10.30 AM -12.30 PM	**Inaugural Ceremony** **Dais:** Chief Guest: Haribhau Kisanrao Bagde; Hon'ble Governor, Rajasthan Guest of Honour: Padma Shri awardee Prof. B.S. Dhillon, former Vice Chancellor, Punjab Agricultural University, Ludhiana Prof. Balraj Singh, Vice Chancellor, SKNAU, Jobner Dr. Parvinder Kaushal, Vice Chancellor, VCSGUUHF, Bharsar and President, IAUA Dr. N.K. Gupta, Director Research, SKNAU, Jobner and Organizing Secretary Dr. Dinesh Kumar, Executive Secretary, IAUA, New delhi
12:30 PM-2:00PM	**Technical Session-I: Technologies in Protected Cultivation**
Chair	Padma Shri awardee Dr B.S. Dillon, Ex-Vice Chancellor, PAU, Ludhiana, Punjab
Co-Chair	Dr K. B. Kathiria, Vice Chancellor, AAU, Anand
Keynote Address- I	Speaker: Dr Balraj Singh, Vice Chancellor, SKNAU, Jobner Topic: Protected Cultivations: Status, Potential, Challenges & Solutions
Keynote Address -II	Speaker: Dr S.K. Malhotra, Vice Chancellor, MHU, Karnal Topic: Perspectives of Hi-tech horticulture in India
Panel Discussion	**Panellists:** 1. Dr K.B. Kathiria, ViceChancellor, AAU, Anand 2. Dr Z.P. Patel, ViceChancellor, NAU, Navsari 3. Dr A.K. Singh, ViceChancellor, CSAUAT, Kanpur (On-line) 4. Dr D. K. Singh, Professor & Head, Vegetable Science, GBPUAT, Pantnagar 5. Dr Harshvardhan Chaudhary, Principal Scientist, IARI, New Delhi 6. Dr Meena Thakur, Professor -Entomology YSP University of Horticulture & Forestry, Solan **Moderator:** Dr Shailesh Marker, Associate Dean, SKNCOA, Jobner
Rapporteurs	Dr. L.N. Bairwa, Dean, COH, Durgapura, Jaipur Dr. Seema Sharma, Professor, Agronomy, RARI, Durgapura, Jaipur
Lunch Break	2:00-3:00 pm

3:00-4:30 pm	**Technical Session-II: Production Technology and Plant Protection**
Chair	Dr. A.K. Karnatak, ViceChancellor, MPUAT, Udaipur
Co-Chair	Dr. N.H. Kelawala, ViceChancellor, KU, Gandhinagar
Keynote Address -I	Speaker: Dr. Udayanarayana Bhat, Director, Koppert Biological Systems India Pvt. Ltd., Bengaluru Topic: Biological control under protected cultivations
Keynote Address-II	Speaker: Dr. Harshvardhan Chaudhary, Principal Scientist, IARI, New Delhi Topic: Varieties/Hybrids Suitable for Protected Cultivation Developed by Public sector Institutions
Keynote Address-III (Online)	Speaker: Dr. Indra Mani Mishra Vice Chancellor, VNMKV, Parbhani Topic: AgriPv for sustainable food and energy production system
Keynote Address-IV	Speaker: Dr. Sunil Pareek Dean, PGS, NIFTEM, Kundli, Sonepat Topic: Next Generation of Future Foods: Technologies, Challenges and Sustainability
Panel Discussion	**Panelists:** 1. Dr. Parvindra Kaushal, Vice-Chancellor, VCSGUUH&F, Bharsar 2. Dr. Balraj Singh, Vice-Chancellor, SKNAU, Jobner 3. Prof. Nazir Ahmad Ganai, Vice-Chancellor, SKUAST, Kashmir, Srinagar (On-line) 4. Dr. Vishnuvardhan, Vice-ChancellorC, UHS, Udyanagiri, Bagalkot, Karnataka 5. Shri D R Mehta, Founder, Jaipur Foots Moderator : Dr N. K. Gupta Director Research, SKNAU, Jobner
Rapporteurs:	Dr. Shailesh Godika, Professor, Plant Pathology, SKNCoA, Jobner Dr. Pradeep Shekhawat, Professor, Plant Pathology, RARI
Tea Break	**4:30-5:00 pm**

Technical Session-III: Market Assess, Value Chains and Future Directions
Time: 5:00-6:30 pm

Chair	Dr. Z.P. Patel, Vice Chancellor, NAU, Navsari
Co-Chair	Dr. Vishnuvardhan, Vice Chancellor, UHS, Bagalkot
Panel Discussion	**Penalists:** 1. Dr N.H. Kelawala, ViceChancellor, KU, Gandhinagar 2. Dr B. Fakrudin, Director Research, UHS, Udyanagiri, Navanagar, Bagalkot, Karnataka **Moderator:** Dr S. Marker, Associate Dean, SKNCOA, Jobner
Rapporteurs	Dr. Harphool Singh, Director, RARI, Durgapura Dr. Ummed Singh, Dean CoA, Fatehpur

Day 2 : 30th December, 2024	
11:00AM-11:30 AM	Arrival at Guest House, SKNCOA, Jobner
11:30 AM-01:00 PM	**SKNCOA Campus Visit:** • Heritage Building • Water Storage Ponds • Seed Spices Research Programme • Water Recycling Plant
01:00 PM-1:45 PM	• Presentation of achievements and activities of SKNAU by Dr. Balraj Singh, Vice Chancellor, SKNAU, Jobner at Conference Hall, Jobner • Interaction with faculty and students
01:45 PM - 02:30 PM	**Lunch**
2:30 PM - 4:30 PM	Visit to see Protected cultivation structures at village Bassi Jhajhda and discussion with farmers
4:30 PM - 5:00 PM	**Tea**
5:00 PM	Departure for RARI, Durgapura, Jaipur
7:00 PM - 8:00 PM	Plenary Session at RARI, Durgapura **Chair:** Padma Shri Awardee Dr B.S. Dillon, Former-Vice Chancellor, PAU, Ludhiana **Co-Chair: 1.** Dr Parvinder Kaushal, Vice Chancellor, VCSGUUH&F, Bharsar **2.** Dr. Balraj Singh, Vice Chancellor, SKNAU, Jobner
	Presentation of Recommendations of Technical Session-I, II & III
	Remarks by Co-Chair
	Concluding Remarks by Chair
	Vote of Thanks: Dr Dinesh Kumar, Executive Secretary, IAUA, New Delhi
	National Anthem

List of Delegates

Annexure II

S.N.	Name and Designation	Contact Details
1.	Dr. Baldev Singh Dhillon Ex Vice Chancellor, PAU, Ludhina	Mob.: 7872171033
2.	Dr. D.K. Singh Vice Chancellor Representative GBPUAT, Pantnagar	Mob.: 9412931556 E-mail: vcgbpuat@gmail.com
3.	Dr. Parvinder Kaushal, Vice Chancellor, VCS, Garhwali Uttarakhand University of Horticulture & Forestry, PauriGarhwal, Bharsar - 246123 (Uttarakhand)	Phone : 01348-226058 Mobile: 9805185890 Email : vc27uuhfm@gmail.com
4.	Dr. K.B. Kathiria Vice Chancellor, Anand Agricultural University, Anand - 388 110 (Gujarat)	Phone: 02692-261273 Mobile : 9998009960 E-mail : vc@aau.in
5.	Dr. Z.P. Patel Vice Chancellor, Navsari Agricultural University Navsari - 396450 (Gujarat)	Phone: 02637-283869 Mobile : 9099963219 : 026 E-mail : vc@nau.in
6.	Dr. N.H. Kelawala Vice Chancellor, Kamdhenu University, Dist. Gandhinagar - 382010 (Gujarat)	Phone: 079-23220712 Mobile : 7573035101 E-mail : vc@kamdhenuuni.edu.in
7.	Dr. Meena Thakur Vice Chancellor representative, Dr Y.S. PUH & Forestry Nauni - 173230 (Himachal Pradesh)	Phone : 01792-252363 Phone : 01792-252356 E-mail : vcuhf@yspunivers
8.	Dr. Vishnuvardhana Vice Chancellor UHS, Navanagar, Bagalkot-587104 (Karnataka)	Phone : 08354-230351 Mobile : 9449872872 E-mail : vc@uhsbagalkot.edu.in
9.	Dr. Abhay Kumar Vyas, Vice Chancellor Agriculture University, Kota - 324001 (Rajasthan)	Mobile : 8302321577 E-mail : vc@aukota.org vcaukota@gmail.com
10.	Dr. Ajeet Kumar Karnatak Vice Chancellor MPUAT, Udaipur - 313001 (Rajasthan)	Phone : 0294-2471101 / Mobile : 7668867331 E-mail : vc_mpuat@yahoo.co.in
11.	Dr. Y.H. Ghelani Registrar Junagarh Agriculture University, Junagarh	Mob.: 9898141556

12.	Dr. Arun Kumar Vice Chancellor, SKRAU, Bikaner	Mob.: 8987374521
13.	Dr. B.N. Shringi Director Research, RAJUVAS, Bikaner	Mob.: 9571894341
14.	Dr. Dinesh Kumar Executive Secretary , IAUA, New Delhi	Mob.: 9811129226
15.	Prof. Balraj Singh Hon'ble Vice Chancellor, SKNAU,Jobner	Mob.: 9811271303
16.	Dr. Harshawavdhan Choudhary Associate Dean (UG) ICAR-IARI,New Delhi	Mob.: 9654887826
17.	Dr. B. Fakrudin Director Research UHS, Bagalkot, Karnataka	Mob.: 9480369274
18.	Dr. Sunil Pareek Dean NIFTEM, Sonipat	Mob. 7056721483
19.	Dr. Vijay Deep Watts Sales Manager, North Koppert	Mob. 8968023371
20.	Dr. Udaynarayana Bhat Director, North Koppert	Mob. 8971635160
21.	Dr. Harphool Singh Director, RARI, Durgapura	Mob. 9414773798
22.	Dr. S.R. Dhaka Director, Ext. Education, SKNAU, Jobner	Mob. 8005881181
23.	Dr. Seema Sharma Professor RARI, Durgapura	Mob. 9408708418
24.	Dr. R.N. Sharma, Director, HRD/COE SKNAU, Jobner	Mob. 8949450380
25.	Dr. Roshan Choudhary Deputy Director Research, SKNAU, Jobner	Mob. 9571233892
26.	Dr.Sheela Kharkwal I/C,Deptt. of Economic, SKNCoA, Jobner	Mob. 8168254398
27.	Dr. L. N. Bairwa Professor (Horti.) & Dean, COH, Durgapura	Mob. 9414932548
28.	Dr. M. R. Choudhary Dean & FC, SKNCoA, Jobner	Mob. 9799392369
29.	Dr. N.K. Gupta Director Research, SKNAU, Jobner	Mob. 9460987039

30.	Dr. Mahesh Dutt Dean, CODST, Jobner	Mob. 9928402564
31.	Dr. Ummed Singh Dean, CoA, Fatehpur- Shekhawati	Mob. 8299837429
32.	Dr. D.K. Yadav Dean, CoA, Lalsot, Dausa	Mob. 7976144702
33.	Dr. S.S. Manohar Dean, CoA, Kotputli	Mob. 9414349440
34.	Dr. R. S. Meena, Dean, CoA, Jhilai	Mob. 9414543695
35.	Dr. K. C. Gupta Assoc. Dean (Academic), RARI, Durgapura	Mob. 9414287447
36.	Dr. Sunita Gupta Professor & Head (Pl. Phy.), RARI, Durgapura	Mob. 9414639561
37.	Dr. Uadal Singh Professor & Head (Horti.), RARI, Durgapura	Mob. 9424482576
38.	Dr. A.S. Baloda Professor/ PC & Head (Ento.), RARI, Durgapura	Mob. 9414065091
39.	Dr. R. Sammauria Professor & Head (Agro.), RARI, Durgapura	Mob. 9829611123
40.	Dr. Shailesh Marker Professor (GPB), SKN CoA, Jobner	Mob. 8949864920
41.	Dr. Rajesh Bagdi Professor & Head (P. Path.), RARI, Durgapura	Mob. 9414228249
42.	Dr. B. L. Dudwal Assistant Professor, SKNCOA, Jobner	Mob. 8290480713
43.	Dr. R.C. Meena Assoc. Professor (Seed Sci.), RARI, Durgapura	Mob.8947992761
44.	Dr.Shailesh Godika Professor&Head (PPATH), SKNCOA, Jobner	Mob.9461038993
45.	Dr. D.K. Gothwal Professor & Head (GPB) SKNCOA, Jobner	Mob. 9928845911
46.	Dr. S. K. Jain Professor & Head (GPB), RARI, Durgapura	Mob.7573017654
47.	Dr. Kiran Gaur Professor & Head (SMCS) SKNCOA, Jobner	Mob.9829191893

48.	Dr. S. S. Punia Professor & ADR (Seed), RARI, Durgapura	Mob.8005937536
49.	Dr. Ramakant Sharma Professor (Ext. Edu.), ARSS, Tabiji, Ajmer	Mob. 9414325662
50.	Dr. H.P Parewa Assoc. Professor (Soil Sci.), RARI, Durgapura	Mob.9468959800
51.	Dr. Subhodh Bisnoi Assoc. Professor (PPHYS), RARI, Durgapura	Mob.8058626129
52.	Dr.Ramniwas Choudhary Assoc. Professor (Agro), RARI, Durgapura	Mob.9427007778
53.	Dr. Rani Saxena Asstt. Prof,(Agromet), RARI, Durgapura	Mob.7976984584
54.	Dr. Hemraj Gurjar Asstt. Prof. (Nematology), RARI, Durgapura	Mob.9887271976
55.	Dr. Bharti Shokeen Asstt. Prof. (English), CoH, Durgapura	Mob.9999067429
56.	Dr. Dr. Y.K. Sharma Asstt. Prof. (Horti.), RARI, Durgapura	Mob.9660458599
57.	Dr. S.K. Bairwa Asstt. Professor (Horti.), RARI, Durgapura	Mob.9529487495
58.	Dr. Bhavya Mishra Asstt. Professor (PPATH.), RARI, Durgapura	Mob.9756409773
59.	Dr. Saurabh Singla Asstt. Prof. (Ag.Stat.), RARI, Durgapura	Mob.9888548577
60.	Dr. Ranjana Sirohi Asstt. Prof. (Horti.), RARI, Durgapura	Mob.8630994784
61.	Dr. Basant K. Bhichhar Asstt. Prof. (LPM.), SKNCoA, Jobner	Mob.8052645461
62.	Dr. Ashok Choudhary Asstt. Prof. (Horti.), RARI, Durgapura	Mob.8432719252
63.	Dr. Raju Ram Choudhary Asstt. Prof. (GPB), RARI, Durgapura	Mob.9772248081
64.	Dr. Shankar Lal Sharma Asstt. Prof. (Entomology) SKNCoA, Jobner	Mob.9414823708

Executive Committee of IAUA

Annexure III

President	Dr Parvinder Kaushal Vice Chancellor, VCSGUUHF, Bharsar
Vice President	Dr N.H. Kelawala Vice Chancellor, KU, Gandhinagar
Secretary General	Dr A.K. Karnatak Vice Chancellor, MPUAT, Udaipur
Treasurer	Dr M.S. Chauhan Vice Chancellor, GBPUAT, Pantnagar
Member	Dr D.R. Singh Vice Chancellor, BAU, Sabour
Member	Dr Bijendra Singh Vice Chancellor, ANDUAT, Ayodhya
Member	Dr Z.P. Patel Vice Chancellor, NAU, Navsari
Ex-Officio Member	Dr R.C. Agrawal DDG (Agril. Edu.), ICAR, New Delhi
Executive Secretary	Dr Dinesh Kumar IAUA Secretariat, NASC Complex, New Delhi

Technical Committees for organization of 16th National Symposium of IAUA

Annexure IV

Steering Committee/ Welcome & Reception Committee		
1.	Prof. Balraj Singh, Hon'ble Vice-Chancellor, SKNAU	Patron
2.	Dr N.K. Gupta, Director Research, SKNAU, Jobner	Member
3.	Dr S.R. Dhaka, Director, Extension Education, SKNAU, Jobner	Member
4.	Dr M.R. Choudhary, Dean & FC, SKNCOA, Jobner	Member
5.	Dr S.K. Khandelwal, Director, PME, SKNAU, Jobner	Member
6.	Dr K.C. Sharma, Director, Students Welfare, SKNAU, Jobner	Member
7.	Dr R.N. Sharma, Director, HRD/ CoE, SKNAU, Jobner	Member
8.	Dr Harphool Singh, Director, RARI, Durgapura	Member
9.	Dr L.N. Bairwa, Professor & Dean, CoH, Durgapura	Member
10.	Sh. Sohan Lal Choudhary, Registrar, SKNAU, Jobner	Member
11.	Sh. B.L. Banjara, Comptroller, SKNAU, Jobner	Member
Programme Committee		
1.	Prof. Balraj Singh, Vice Chancellor, SKNAU, Jobner	Convenor
2.	Dr N.K. Gupta, Director Research, SKNAU, Jobner	Member
3.	Dr M. R. Choudhary, Dean & FC, SKNCOA, Jobner	Member
4.	Dr Harphool Singh, Director, RARI, Durgapura	Member
Registration Committee		
1.	Dr K.C. Gupta, Professor (Agro.) & Assoc. Dean, RARI, Durgapura	Convenor
2.	Dr Shweta Gupta, Asst. Prof. (Agronomy), RARI, Durgapura	Member
3.	Dr Pratibha Singh, Asstt. Professor, RARI, Durgapura	Member
4.	Dr Manisha Sharma, Asstt. Prof. (Ento.), RARI, Durgapura	Member
5.	Dr Manish Kumar, Asstt. Prof. (GPB), RARI, Durgapura	Member
6.	Dr Ranjana Sirohi, Asstt. Prof., RARI, Durgapura	Member
Hall Arrangement Committee		
1.	Dr L.N. Bairwa, Professor & Dean, CoH, Durgapura	Convenor
2.	Dr S.P. Singh, Prof.& Head (Horti.) SKNCOA, Jobner	Co-convener
3.	Dr S.K. Bairwa, Asstt. Prof. (Horti.), RARI, Durgapura	Member
4.	Dr Rani Saxena, Asstt. Prof. (Agromet.), RARI, Durgapura	Member
5.	Dr Saurabh Singla, Asstt. Prof. (Ag. Stat.), RARI, Durgapura	Member
6.	Dr Suresh K. Sharma, Asstt. Prof. (Comp. Sci.), SKNCOA, Jobner	Member
Accommodation Committee		
1.	Dr Uadal Singh, Prof. & Head (Horti.), RARI, Durgapura	Convenor
2.	Dr Yogesh Sharma, Asst. Professor (Horti.), RARI, Durgapura	Member
3.	Dr Hemraj Gurjar, Asstt, Prof. (Nematology), RARI, Durgapura	Member
4.	Dr Naveen Kumar, Asstt. Prof. (Ag. Engg.), SKNCOA, Jobner	Member

Transport Committee		
1.	Dr A.S. Baloda, PC/Professor & Head, RARI, Durgapura	Convenor
2.	Dr Subhodh Bisnoi, Asso. Professor (PPHYS), RARI, Durgapura	Member
3.	Dr Upendra Singh, Asstt. Prof. (Ag. Engg.), SKNCOA, Jobner	Member
4.	Dr Raju Ram Choudhary, Asst. Professor (GPB), RARI, Durgapura	Member
5.	Dr M.R. Yadav, Asstt. Prof. (Agronomy), RARI, Durgapura	Member
6.	Dr Mukesh Nitharwal, Asstt. Prof. (Entomology), RARI, Durgapura	Member
7.	Dr Ashok Choudhary, Asstt. Prof. (Horticulture), RARI, Durgapura	Member
8.	Dr Bheem Pareek, Asstt. Prof. (Agronomy), RARI, Durgapura	Member
9.	Dr Arvind M., Asstt. Prof. (Pathologyy), RARI, Durgapura	Member
Food Committee		
1.	Dr K.C. Gupta, Professor (Agro.) & Assoc. Dean, RARI, Durgapura	Convenor
2.	Dr S.P. Parewa, Assoc. Prof. (Soil Sci.), RARI, Durgapura	Member
3.	Dr B.L. Dudwal, Asstt. Prof., (Agro.), SKNCOA, Jobner	Member
4.	Dr R.S. Sharma, Asstt. Prof., (Plant Pathology), RARI, Durgapura	Member
5.	Dr S.L. Sharma, Asst. Prof., (Ento.), SKNCOA, Jobner	Member
6.	Dr S.K. Goyal Asstt. Prof. (Pathology), SKNCOA, Jobner	Member
7.	Dr Basant K. Bhichhar, Asstt. Prof. (LPM), SKNCOA, Jobner	Member
8.	Dr Narender, Asstt. Prof. (Phy. Education), SKNCOA, Jobner	Member
Technical Committee		
1.	Dr Harphool Singh, Director, RARI, Durgapura	Convenor
2.	Dr Shailesh Godika, Professor & Head, SKNCOA, Jobner	Member
3.	Dr Shailesh Marker, Professor, SKNCOA, Jobner	Member
4.	Dr Seema Sharma, Professor, (Agro), RARI, Durgapura	Member
5.	Dr Sheela Kharkwal, Asstt. Prof. (Economics),SKNCOA, Jobner	Member
6.	Dr Heena Saheewala, Asstt. Prof. (Pl. Biotech.), SKNCOA, Jobner	Member
Campus & Field Visit Committee		
1.	Dr S.R. Dhaka, Director, extension Education, SKNAU, Jobner	Convenor
2.	Dr S.S. Punia, Profesor & ADR (Seed), RARI, Durgapura	Co- Convenor
3.	Dr S.K. Jain, Professor (GPB), RARI, Durgapura	Member
4.	Dr O.P. Garhwal, Professor (Horticulture), SKNCOA	Member
5.	Dr Ramniwas Choudhary, Assoc. Prof. (Agronomy), RARI, Durgapura	Member
6.	Dr Basant K. Bhichhar, Asstt. Prof. (LPM), SKNCOA, Jobner	Member
Photography, Videography, Press & Media Committee		
1.	Dr Ramakant Sharma, Professor, ARSS, Tabiji, Ajmer	Convenor
2.	Dr B.S. Badala, Asst. Professor, SKNCOA, Jobner	Member
3.	Dr Y.K. Sharma, Asstt. Professor (Horti.), RARI, Durgapura	Member
4.	Dr Rajesh Singh, Asst. Professor, SKNCOA, Jobner	Member

Finance and Purchase Committee		
1.	Dr Rajesh Bagdi, Professor & Head, RARI, Durgapura	Convenor
3.	Dr S.K. Goyal, DDO, SKNCOA, Jobner	Member
4.	Sh. A. N. Mathur, Lab Asst cum Acct., RARI, Durgapura	Member
Printing of Souvenir Committee		
1.	Dr Sunita Gupta, Professor & Head (Pl.Phy.), RARI, Durgapura	Convenor
2.	Dr Shailesh Marker, Professor & Assoc. Dean, SKNCOA, Jobner	Member
3.	Dr Kiran Gaur, Professor & Head (SMCS), SKNCOA, Jobner	Member
4.	Dr Roshan Choudhary, Dy. Director (Res.), SKNAU, Jobner	Member
Speech Preparation Committee		
1.	Dr S.K. Khandelwal, Director, PME, SKNAU, Jobner	Convenor
2.	Dr Deepak Gupta, Asstt. Prof. (GPB), SKNCOA, Jobner	Member
Cultural Committee		
1.	Dr D.K. Gothwal, Professor & Head (GPB), SKNCOA, Jobner	Convenor
2.	Dr B.S. Chandrawat, Asstt. Prof. (Nematology), SKNCOA, Jobner	Member
3.	Mrs. Parul, Asstt. Prof. (Comp. Science), CODST, SKNAU, Jobner	Member
4.	Dr Bharti, Asstt. Prof., RARI, Durgapura	Member
5.	Dr Bhavya Mishra, Asstt. Prof. (Pathology), RARI, Durgapura	Member
Anchoring Committee		
1.	Dr Kiran Gaur, Professor & Head (SMCS), SKNCOA, Jobner	Convenor
2.	Dr Rani Saxena, Asstt. Prof. (Agromet.), RARI, Durgapura	Member
3.	Dr Nidhi Kundu, Asstt. Prof. (Comp. Science), SKNCOA, Jobner	Member
Banner Committee		
1.	Dr R.P. Ghasoliya, Professor (Horti.), SKNCOA, Jobner	Convenor
2.	Dr Gajanand Jat, Assoc. Prof. (Soil Sci.), SKNCOA, Jobner	Member
3.	Dr Arun Pratap Singh, Asstt. Prof. (LPM), CODST, Jobner	Member
Medical Facility Committee		
1.	Dr R. Sammauria, Professor (Agronomy) & Head, RARI, Durgapura	Convenor
2.	Dr P.S. Shekhawat, Prof. (Plant Path.), RARI, Durgapura	Member
3.	Dr R.C. Meena Assoc. (Seed Sci.) Prof., RARI, Durgapura	Member
4.	Dr Rajesh Achera, T.O., SKNAU, Jobner	Member

Glympses of the 16th National Sympsium of IAUA



Hon'ble Governor of Rajasthan, Shri Haribhau Krishnarao Bagde inaugurating the Symposium by lighting the lamp



Hon'ble Vice Chancellors and Delegates Visited the ATKC Museum

Glympses of the 16th National Sympsium of IAUA





Hon'ble Vice Chancellors and Delegates Visited the Protected Cultivation Structures at Village Bassi Jhajhda and Discussion with Farmers

Press in Media??

राष्ट्रीय संगोष्ठी का भव्य उद्घाटन : संरक्षित खेती में नए आयामों की ओर कदम

संरक्षित खेती के लिए मातृ बीज और जैविक खादों से भूमि की होती है सुरक्षा - राज्यपाल



कृषि गोल्डलाइन, जयपुर।

श्री कर्ण नरेंद्र कृषि विश्वविद्यालय, जोबनेर और इंडियन एग्रीकल्चर यूनिवर्सिटी एसोसिएशन (IAUA) के संयुक्त तत्वाधान में राही, दुगोला में आयोजित दो दिवसीय राष्ट्रीय संगोष्ठी का आज भव्य उद्घाटन हुआ। कार्यक्रम का शुभारंभ राजस्थान के राज्यपाल हरिभाऊ किसनराव बागड़े ने किया। इस संगोष्ठी का विषय 'उद्यानिकी फसलों में संरक्षित खेती - चुनौतियां एवं सशक्त उपाय है।

राज्यपाल का प्रेरक संबोधन

राज्यपाल ने सबसे पहले राही परिसर में अनुसंधान गतिविधियों का अवलोकन किया और उनके संचालन उत्कृष्टता केंद्र की आधारशिला रखी। कुलपति डॉ. बलराज सिंह, कुलसचिव श्योन लाल एवं निदेशक राही डॉ हरफूल सिंह ने राज्यपाल को गेहूं और जौ पर चल रहे अनुसंधान ट्रायल्स का अवलोकन करवाया। कुलपति महोदय ने उद्घटन करते हुए तकनीकी सम्मेलन का शुभारंभ किया।

राज्यपाल के मुख्य विचार

हरिभाऊ किसनराव बागड़े ने भारतीय कृषि विश्वविद्यालय संघ के कार्यों की सराहना करते हुए इसे 'कर्तव्यों के प्रति समर्पित संगठन' कहा। उन्होंने स्वतंत्रता के समय को याद करते हुए भारत की अन्न आत्मनिर्भरता की ओर हुई प्रगति पर प्रकाश डाला।

मातृ पौधों की महत्ता - राज्यपाल ने फलदार पौधों के अच्छे उत्पादन में मातृ पौधों की भूमिका पर बल दिया। उन्होंने खेती के लाभ - राज्यपाल ने उन्नत खेती के जरिए कीट, रोग और मौसम के दंश से बचाव के लिए विज्ञान व्यवस्था की आवश्यकता बताई।

कुलपति का उद्बोधन

श्री कर्ण नरेंद्र कृषि विश्वविद्यालय, जोबनेर के कुलपति डॉ. बलराज सिंह ने मेहमानों का स्वागत और संगठनिक अतिथियों का हार्दिक स्वागत किया। डॉ. बलराज सिंह ने संगोष्ठी के उद्देश्यों पर प्रकाश डालते हुए कहा कि संरक्षित खेती के माध्यम से उद्यानवन की उपज और पौष्टिकता को बेहतर किया जा सकता है। उन्होंने विश्वविद्यालय की प्रगति रिपोर्ट प्रस्तुत करते हुए इसके अनुसंधान, शिक्षा और प्रसार में किए गए कार्यों का विवरण दिया। मौसम संबंधी डॉ. बलराज सिंह ने बसेरी और बस्सी झाड़ज़ा गांव को तरंक्षित खेती के सफलतम मॉडल गांव बताते हुए उद्यानवन में इनका दौरा करने का आह्वान किया।

दैनिक भास्कर जयपुर जिला चौमू 01-01-2025

वाइस चांसलर की राष्ट्रीय संगोष्ठी का कृषि के लिए उपयोगी होने की सार्थकता पर चर्चा

संरक्षित खेती को बढ़ावा देने की आवश्यकता : कुलपति

भास्कर न्यूज | जोबनेर

संरक्षित खेती में नवाचार को लेकर आयोजित वाइस चांसलर की राष्ट्रीय संगोष्ठी का कृषि के लिए उपयोगी होने की सार्थक चर्चा के साथ समापन हुआ। श्री कर्ण नरेन्द्र कृषि विश्वविद्यालय, जोबनेर और भारतीय कृषि विश्वविद्यालय संघ द्वारा आयोजित वाइस चांसलर्स की राष्ट्रीय संगोष्ठी कुलपति, अधिकारी एवं वैज्ञानिकों ने एक ही जाजम पर बैठकर चर्चा की और संरक्षित खेती के नवाचार देश के किसानों के लिए उपयोगी बताया। कृषि में अच्छा लाभ के लिए फसल चक्र की आवश्यकता बताई।

बस्सी झाड़ज़ा कला मॉडल: राष्ट्रीय संगोष्ठी के वाइस चांसलर का एक दल ने बस्सी झाड़ज़ा गांव का दौरा किया और उन्होंने माना विषम परिस्थितियों में बस्सी झाड़ज़ा संरक्षित खेती के लिए देश का सफलतम उदाहरण है। विषम परिस्थितियां जैसे संपूर्ण रूप से बारिश आधारित, जोबनेर के आसपास के क्षेत्र में पानी की बड़ी समस्या, पानी की हीलिंग कैपेसिटी कम है, गर्मियों में तापमान 50 सेल्सियस से अधिक व सर्दियों में तापमान माइनस 4 तक रहता है।

किसानों के प्रयास की सराहना करते हुए कुलपति डॉ. बलराज सिंह ने कहा कि संरक्षित खेती को बढ़ावा देने की आवश्यकता है। बस्सी-झाड़ज़ा की पॉलीहाउस टेक्नोलॉजी को पूरे देश में क्लस्टर के रूप में अपनाने की जरूरत है। वैज्ञानिकों ने माना क्लस्टर में पोली हाउस टेक्नोलॉजी ज्यादा सफल होगी।



जोबनेर। पोली हाउस में कृषि कर रहे किसान की खेती को देखते कृषि वैज्ञानिक।

इसे कृषि में प्रेरित करने वाला कार्य बताया। कुलपति डॉ. बलराज सिंह ने कहा कि संरक्षित खेती को बढ़ावा देने की आवश्यकता है। बस्सी-झाड़ज़ा की पॉलीहाउस टेक्नोलॉजी को पूरे देश में क्लस्टर के रूप में अपनाने की जरूरत है। वैज्ञानिकों ने माना क्लस्टर में पोली हाउस टेक्नोलॉजी ज्यादा सफल होगी।

किसानों की समस्याओं पर हुई गहन चर्चा: कुलपतियों ने फसलों की चुनौतियों पर चर्चा करते हुए बताया कि सरसों और रैपसीड में ओरोबैंकि का प्रकोप किसानों के लिए एक गंभीर समस्या बनता जा रहा है। जिरे में विल्ट का समाधान मिल चुका है, लेकिन अब क्लाइट एक बड़ी चुनौती के रूप में उभर है। उन्होंने यह भी बताया कि पॉलीहाउस में थ्रिप्स, व्हाइट फ्लाई और माइट का नियंत्रण रासायनिक कीटनाशकों से करना मुश्किल हो रहा है। लेकिन उनके कुछ बायोलॉजिकल उपाय का कुलपतियों ने संरक्षित खेती के क्षेत्र पर अपने विचार व्यक्त किए। संरक्षित खेती के को बढ़ावा देने में और संरक्षित खेती का नया रोड मैप तैयार करने में मदद मिलेगी। साथ ही राष्ट्रीय सेमिनार की रिपोर्ट राज्य और केंद्र सरकार को भेजी जाएगी।

किसानों की मांग गांव में खुले पोली हाउस प्रशिक्षण केंद्र: किसानों की ओर से प्रगतिशील किसान खेता राम महरिया ने गांव में पॉलीहाउस प्रशिक्षण केंद्र खोलने की मांग रखी। कुलपतियों ने माना पोली हाउस प्रशिक्षण केंद्र खुलने से गांव के आसपास के किसानों को तो फायदा होगा ही साथ इस टेक्नोलॉजी को आसानी से दूसरे क्षेत्र के किसानों को अपनाने में सुविधा मिलेगी।

संरक्षित खेती में चुनौतियां: संरक्षित खेती में उच्च लागत विशेष तकनीकी ज्ञान की आवश्यकता, प्राकृतिक आपदाओं का खतरा, विशेष रोग, कीटों, निमेटोड और स्थिर बाजार पहुंच सुनिश्चित करना जैसी बड़ी चुनौतियां शामिल हैं। डॉ. पी कौशल, अध्यक्ष भारतीय कृषि विश्वविद्यालय संघ और डॉ. दिनेश कुमार, सचिव भारतीय कृषि विश्वविद्यालय संघ, पद्मश्री डॉ. बलदेव सिंह ढिल्लों, पूर्व कुलपति पंजाब कृषि विश्वविद्यालय, लुधियाना ने संरक्षित खेती के क्षेत्र पर अपने विचार व्यक्त किए। इस चर्चा का मुख्य निकर्ष बताया की संरक्षित खेती के को बढ़ावा देने में व संरक्षित खेती का नया रोड मैप तैयार करने में मदद मिलेगी। साथ ही सेमिनार की रिपोर्ट राज्य और केंद्र सरकार को भेजी जाएगी।

दैनिक नवज्योति Anchal - 30 Dec 2024 - Page 12

दो दिवसीय राष्ट्रीय संगोष्ठी का उद्घाटन

खेती में कम पानी और कम अवधि की फसल आज की जरूरत: बागड़े

राज्यपाल ने ऊतक संवर्धन उत्कृष्टता केंद्र की आधारशिला रखी



जोबनेर। श्री कर्ण नरेंद्र कृषि विश्वविद्यालय जोबनेर और इंडियन एग्रीकल्चर यूनिवर्सिटी एसोसिएशन के संयुक्त तत्वाधान में राही दुगोपुरा में आयोजित दो दिवसीय राष्ट्रीय संगोष्ठी का रविवार को राज्यपाल हरिभाऊ किसनराव बागड़े ने शुभारम्भ किया। संगोष्ठी का विषय उद्यानिकी फसलों में संरक्षित खेती - चुनौतियां एवं सशक्त उपाय है। इस मौके पर राज्यपाल ने राही परिसर में अनुसंधान गतिविधियों का अवलोकन कर ऊतक संवर्धन उत्कृष्टता केंद्र की आधारशिला रखी। कुलपति डा. बलराज सिंह, कुलसचिव श्योन लाल एवं निदेशक राही डॉ हरफूल सिंह ने राज्यपाल को गेहूं और जौ पर चल रहे अनुसंधान ट्रायल्स का अवलोकन करवाया। संगोष्ठी का उद्घाटन करते राज्यपाल ने कहा कि भारतीय कृषि विश्वविद्यालय संघ अपने कर्तव्यों के प्रति समर्पित संगठन है। उन्होंने स्वतंत्रता के समय याद करते भारत की अन्न आत्मनिर्भरता में बढ़ते कदमों पर प्रकाश डाला। उन्होंने फलदार पौधों के अच्छे उत्पादन में मातृ पौधों की भूमिका पर बल दिया। उन्होंने खेती के लाभ - राज्यपाल ने उन्नत खेती के जरिए कीट, रोग और मौसम के दंश से बचाव के लिए विज्ञान व्यवस्था की आवश्यकता बताई। उन्होंने एक राजत अनार की फसल और लैंड ऊंट के उपयोग को वृष्टि क्षेत्र के लिए आवश्यक बताया।



के जीते गए पदक दिखाते हैं। उन्होंने स्वतंत्रता के समय याद करते भारत की अन्न आत्मनिर्भरता में बढ़ते कदमों पर प्रकाश डाला। उन्होंने फलदार पौधों के अच्छे उत्पादन में मातृ पौधों की भूमिका पर बल दिया। उन्होंने खेती के लाभ - राज्यपाल ने उन्नत खेती के जरिए कीट, रोग और मौसम के दंश से बचाव के लिए विज्ञान व्यवस्था की आवश्यकता बताई। उन्होंने एक राजत अनार की फसल और लैंड ऊंट के उपयोग को वृष्टि क्षेत्र के लिए आवश्यक बताया।

देशभर के कृषि विश्वविद्यालयों के कुलपति आए एक मंच पर.. किसानों के साथ किया संवाद; नवाचारों की दिशा में बड़ा कदम

श्री कर्ण नरेंद्र कृषि विश्वविद्यालय और इंडियन एग्रीकल्चर यूनिवर्सिटी एसोसिएशन द्वारा दो दिवसीय राष्ट्रीय संगोष्ठी आयोजित

कुलपतियों का दल पहुंचा बस्सी-झांझड़ा; किसानों के साथ हुई संवाद बैठक

हमारा समाचार



जोबनेर। श्री कर्ण नरेंद्र कृषि विश्वविद्यालय, जोबनेर, और इंडियन एग्रीकल्चर यूनिवर्सिटी एसोसिएशन (आईएयूए) द्वारा आयोजित दो दिवसीय राष्ट्रीय संगोष्ठी ने भारतीय कृषि क्षेत्र में नए विचारों और नवाचारों की दिशा में एक ऐतिहासिक कदम उठाया। इस संगोष्ठी का उद्देश्य देशभर के कृषि विश्वविद्यालयों के कुलपतियों और अधिकारियों को एक मंच पर लाकर कृषि क्षेत्र में आने वाली चुनौतियों और अवसरों पर चर्चा करना था।

संगोष्ठी के दूसरे दिन कुलपतियों और अधिकारियों ने कृषि महाविद्यालय जोबनेर का दौरा किया। उन्होंने छात्रों द्वारा तैयार मृदा परीक्षणशाला, बीज उपादन, मशरूमघरी पालन, एरोपोनिक्स और जैवविविधता मॉडल जैसे इनोवेटिव प्रोजेक्ट्स का निरीक्षण किया। रेडी प्रोग्राम के अंतर्गत छात्रों द्वारा किए गए कार्यों की सराहना करते हुए कुलपतियों ने कहा कि ऐसी प्रायोगिक गतिविधियां छात्रों के ज्ञान, कौशल और व्यक्तित्व विकास के लिए अत्यंत महत्वपूर्ण हैं। संगोष्ठी के दौरान विभिन्न विश्वविद्यालयों की उपलब्धियों पर आधारित रेडी पुस्तक का विमोचन किया गया। इस अवसर में विश्वविद्यालय की प्रमुख गतिविधियों और नवाचारों का विवरण दिया गया है। विश्वविद्यालय के कुलपति डॉ. बलराज सिंह ने सारपाकर नस्स की गाय के पर्यावरणीय अनुकूलन और इसकी मूल प्रतिरोधी विशेषताओं की जानकारी दी। साथ ही, उन्होंने विकसित सोलेन वटर पर्यावरण संरक्षण वह संदेश देती हैं, बल्कि छात्रों के लिए एक अमूल्य अनुभव भी प्रदान करती हैं। फ्रीलड भ्रमण के दौरान डॉ. बलराज सिंह ने विश्वविद्यालय द्वारा किसित नई किस्मों, जैसे सौंफ की नई किस्म आरएफ-290 का प्रदर्शन किया। उन्होंने सरसों और रैपसीड में ओरोबैंकि समस्या और जीरे में ब्लाइट रोग जैसी चुनौतियों पर चर्चा की।

किसानों के साथ संवाद में हुआ समस्याओं के समाधान पर मंथन, वक्ताओं ने मृदा को सरक्षरों के समक्ष रखने का किया वादा

गांव में आयोजित कार्यक्रम में किसानों ने ब्लिप्स, व्हाइटफ्लाई और माइट जैसी समस्याओं को उठाया। कुलपति ने इन समस्याओं का समाधान जल्द ही प्रदान करने का आश्वासन दिया। सरपंच खेताराम ने कार्यक्रम का संचालन किया और सरपंच दिनेश निठारवाल ने सभी का आभार व्यक्त किया। पद्मश्री डॉ. बलदेव सिंह ढिल्लों ने संरक्षित खेती में डॉ. बलराज सिंह के योगदान की सराहना की। संगोष्ठी में डॉ. पी कौशल, डॉ. दिनेश कुमार, डॉ. एनके गुप्त, डॉ. एमआर चौधरी, डॉ. हरफूल सिंह, डॉ. एसआर याक्त, डॉ. उम्मेद सिंह और अन्य प्रतिष्ठित वैज्ञानिकों ने भाग लिया एवं कहा कि दो दिवसीय चर्चा के बाद उभरे महत्वपूर्ण मुद्दों को केंद्र सरकार और राज्य सरकार के समक्ष रखने का प्रयास किया जाएगा। कार्यक्रम में सैकड़ों किसानों और वैज्ञानिकों ने भाग लिया।

ige 10

दैनिक भास्कर जयपुर जिला चौमू 01-01-2025

किसानों और कुलपतियों ने एक जाजम पर बैठकर की संरक्षित खेती पर चर्चा

बस्सी-झांझड़ा की पोलीहाउस टेक्नोलॉजी को पूरे देश में क्लस्टर के रूप में अपनाने की जरूरत : डॉ. बलराज

जोबनेर। श्री कर्ण नरेन्द्र कृषि विवि जोबनेर और भारतीय कृषि विवि संघ की ओर से आयोजित दो दिवसीय राष्ट्रीय संगोष्ठी कुलपति डॉ. बलराज सिंह की अध्यक्षता में सम्पन्न हुई। देशभर के कृषि विवि के कुलपति, अधिकारी और वैज्ञानिकों ने एक ही जाजम पर बैठकर पॉलीहाउस टेक्नोलॉजी की खेती पर गहन चर्चा की। कुलपतियों ने माना विषम परिस्थितियों में बस्सी झाड़ज़ा देश का सफलतम उदाहरण है। विषम परिस्थितिया जैसे संपूर्ण रूप से बारिश आधारित, जोबनेर के आसपास के क्षेत्र में पानी की है बड़ी समस्या, पानी की हीलिंग कैपेसिटी कम है। गर्मियों में तापमान 50 डिग्री सेल्सियस से अधिक व सर्दियों में तापमान माइनस 4 डिग्री तक रहता है। वैज्ञानिकों ने माना पोलीहाउस टेक्नोलॉजी में विषम परिस्थितियों का समाधान होता है। कुलपति डॉ. बलराज सिंह ने कहा कि संरक्षित खेती को बढ़ावा



देने की आवश्यकता है और बस्सी-झांझड़ा की पोलीहाउस टेक्नोलॉजी को पूरे देश में क्लस्टर के रूप में अपनाने की जरूरत है। वैज्ञानिकों ने माना क्लस्टर में पोली हाउस टेक्नोलॉजी ज्यादा सफल है। टमाटर व खीरे के पॉलीहाउस का निरीक्षण किया। गौरतलब है कि बसेड़ी में बस्सी झाड़ज़ा में 1000 से अधिक पॉलीहाउस हैं। किसानों ने अपनी समस्याओं को कुलपतियों और वैज्ञानिकों के सामने रखा। कुलपतियों ने फसलों की चुनौतियों पर चर्चा करते हुए बताया कि सरसों और रैपसीड में ओरोबैंकि का प्रकोप किसानों के लिए एक गंभीर समस्या बनता जा रहा है। जीरे में विल्ट का समाधान मिल चुका है, लेकिन अब क्लाइट एक बड़ी चुनौती के रूप में उभरा है। उन्होंने यह भी बताया कि पोलीहाउस में थ्रिप्स, व्हाइट फ्लाई और माइट का नियंत्रण रासायनिक कीटनाशकों से करना मुश्किल हो रहा है। लेकिन उनके कुछ बायोलॉजिकल उपाय का कुलपतियों ने संरक्षित खेती के क्षेत्र पर अपने विचार व्यक्त किए। संरक्षित खेती के को बढ़ावा देने में और संरक्षित खेती का नया रोड मैप तैयार करने में मदद मिलेगी। साथ ही राष्ट्रीय सेमिनार की रिपोर्ट राज्य और केंद्र सरकार को भेजी जाएगी।

वाइस चांसलर की राष्ट्रीय संगोष्ठी का कृषि के लिए उपयोगी होने की सार्थकता पर चर्चा

संरक्षित खेती को बढ़ावा देने की आवश्यकता : कुलपति

भास्कर न्यूज | जोबनेर

संरक्षित खेती में नवाचार को लेकर आयोजित वाइस चांसलर की राष्ट्रीय संगोष्ठी का कृषि के लिए उपयोगी होने की सार्थक चर्चा के साथ समापन हुआ। श्री कर्ण नरेन्द्र कृषि विश्वविद्यालय, जोबनेर और भारतीय कृषि विश्वविद्यालय संघ द्वारा आयोजित वाइस चांसलर्स की राष्ट्रीय संगोष्ठी कुलपति, अधिकारी एवं वैज्ञानिकों ने एक ही जाजम पर बैठकर चर्चा की और संरक्षित खेती के नवाचार देश के किसानों के लिए उपयोगी बताया। कृषि में अच्छा लाभ के लिए फसल चक्र की आवश्यकता बताई।

बस्सी झाड़ज़ा कला मॉडल: राष्ट्रीय संगोष्ठी के वाइस चांसलर का एक दल ने बस्सी झाड़ज़ा गांव का दौरा किया और उन्होंने माना विषम परिस्थितियों में बस्सी झाड़ज़ा संरक्षित खेती के लिए देश का सफलतम उदाहरण है। विषम परिस्थितियां जैसे संपूर्ण रूप से बारिश आधारित, जोबनेर के आसपास के क्षेत्र में पानी की बड़ी समस्या, पानी की हीलिंग कैपेसिटी कम है, गर्मियों में तापमान 50 सेल्सियस से अधिक व सर्दियों में तापमान माइनस 4 तक रहता है।

किसानों के प्रयास की सराहना करते हुए कुलपति डॉ. बलराज सिंह ने कहा कि संरक्षित खेती को बढ़ावा देने की आवश्यकता है। बस्सी-झाड़ज़ा की पॉलीहाउस टेक्नोलॉजी को पूरे देश में क्लस्टर के रूप में अपनाने की जरूरत है। वैज्ञानिकों ने माना क्लस्टर में पोली हाउस टेक्नोलॉजी ज्यादा सफल होगी।

किसानों की समस्याओं पर हुई गहन चर्चा: कुलपतियों ने फसलों की चुनौतियों पर चर्चा करते हुए बताया कि सरसों और रैपसीड में ओरोबैंकि का प्रकोप किसानों के लिए एक गंभीर समस्या बनता जा रहा है। जीरे में विल्ट का समाधान मिल चुका है, लेकिन अब क्लाइट एक बड़ी चुनौती के रूप में उभरा है। उन्होंने यह भी बताया कि पोलीहाउस में थ्रिप्स, व्हाइट फ्लाई और माइट का नियंत्रण रासायनिक कीटनाशकों से करना मुश्किल हो रहा है, लेकिन उनके कुछ बायोलॉजिकल उपाय का कुलपतियों ने संरक्षित खेती के क्षेत्र पर अपने विचार व्यक्त किए। संरक्षित खेती के को बढ़ावा देने में और संरक्षित खेती का नया रोड मैप तैयार करने में मदद मिलेगी। साथ ही राष्ट्रीय सेमिनार की रिपोर्ट राज्य और केंद्र सरकार को भेजी जाएगी।

किसानों की मांग गांव में खुले पोली हाउस प्रशिक्षण केंद्र: किसानों की ओर से प्रगतिशील किसान खेता राम महरिया ने गांव में पॉलीहाउस प्रशिक्षण केंद्र खोलने की मांग रखी। कुलपतियों ने माना पोली हाउस प्रशिक्षण केंद्र खुलने से गांव के आसपास के किसानों को तो फायदा होगा ही साथ इस टेक्नोलॉजी को आसानी से दूसरे क्षेत्र के किसानों को अपनाने में सुविधा मिलेगी।

संरक्षित खेती में चुनौतियां: संरक्षित खेती में उच्च लागत विशेष तकनीकी ज्ञान की आवश्यकता, प्राकृतिक आपदाओं का खतरा, विशेष रोग, कीटों, निमेटोड और स्थिर बाजार पहुंच सुनिश्चित करना जैसी बड़ी चुनौतियां शामिल हैं। डॉ. पी कौशल, अध्यक्ष भारतीय कृषि विश्वविद्यालय संघ और डॉ. दिनेश कुमार, सचिव भारतीय कृषि विश्वविद्यालय संघ, पद्मश्री डॉ. बलदेव सिंह ढिल्लों, पूर्व कुलपति पंजाब कृषि विश्वविद्यालय, लुधियाना ने संरक्षित खेती के क्षेत्र पर अपने विचार व्यक्त किए। इस चर्चा का मुख्य निकर्ष बताया की संरक्षित खेती के को बढ़ावा देने में व संरक्षित खेती का नया रोड मैप तैयार करने में मदद मिलेगी। साथ ही सेमिनार की रिपोर्ट राज्य और केंद्र सरकार को भेजी जाएगी।



Directorate of Research
Sri Karan Narendra Agriculture University,
Jobner, Jaipur - 303329 (Rajasthan)

E-mail : director.research@sknau.ac.in
Website: www.sknau.ac.in